

MATHEMATICS MINOR

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Program Advisor: Ida Chan

The Department of Mathematics offers a minor in Mathematics for students majoring in other disciplines. The goal of the minor in Mathematics is to provide the student with significant mathematical skills and a perspective on the discipline.

REQUIREMENTS

The requirements for the minor include at least 22 credits (19 credits if exempted from MATH310) beyond first-year calculus and are outlined below:

Course	Title	Credits
MATH241	Calculus III	4
or MATH340	Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)	
Select one of the following:		3-4
MATH240	Introduction to Linear Algebra	
MATH461	Linear Algebra for Scientists and Engineers	
MATH341	Multivariable Calculus, Linear Algebra, Differential Equations II (Honors)	
MATH310	Introduction to Mathematical Proof (unless exempted)	3
Select one theoretical course from the following:		3
MATH403	Introduction to Abstract Algebra	
MATH405	Linear Algebra	
MATH410	Advanced Calculus I	
Select one algebra course from the following:		3
MATH401	Applications of Linear Algebra	
MATH402	Algebraic Structures	
MATH403	Introduction to Abstract Algebra	
MATH405	Linear Algebra	
MATH406	Introduction to Number Theory	
Select one analysis course from the following:		3
MATH410	Advanced Calculus I	
MATH416	Applied Harmonic Analysis: An Introduction to Signal Processing	
MATH462	Partial Differential Equations	
MATH463	Complex Variables	
MATH464	Transform Methods	
Select one probability course from the following:		3
STAT400	Applied Probability and Statistics I	
STAT410	Introduction to Probability Theory	
Others as approved by UGO		
Total Credits		22-23

Note: If additional credits are needed in order to fulfill the 22-credit (19 credits if exempted from MATH310) minimum, any 400-level

MATH-STAT-AMSC courses except MATH478, MATH480-MATH484, MATH489, MATH498, and STAT464 are acceptable.

Other issues related to the minor in Mathematics:

- The minor in Mathematics is NOT open to Mathematics majors.
- The student will need to achieve at least a "C-" (1.7) in each minor course and an overall minor GPA of 2.0.
- No more than one of the 400-level courses for the minor in Mathematics may be taken at an institution other than the University of Maryland, College Park.